



**REAL WORLD**  
TECHNOLOGY TRAINING & SOLUTIONS  
"Training You Can Really Use"

# AI-102T00: Designing and Implementing a Microsoft® Azure® AI Solution

**Duration: 4 Days**

**Method: Instructor-Led Training (ILT) | Live Online Training**

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**Certification:** Microsoft Certified: Azure AI Engineer Associate — **Exam:** AI-102: Designing and Implementing a Microsoft Azure AI Solution

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## Course Description

This course will teach participants to build AI-infused applications that leverage Azure AI Services, Azure AI Search, and Azure OpenAI. The course will use C# or Python as the programming language.

## Target Audience

This course is intended for:

- Software engineers concerned with building, managing, and deploying AI solutions that leverage Azure AI Services, Azure AI Search, and Azure OpenAI.

## Prerequisites

To attend this course, candidates must have:

- Knowledge of Microsoft Azure and the ability to navigate the Azure portal.
- Knowledge of either C# or Python.
- Knowledge of using REST-based APIs to build computer vision, language analysis, knowledge mining, intelligent search, and generative AI solutions on Azure.

## Course Objectives

Upon successful completion of this course, attendees will be able to:

- Plan and manage an Azure AI solution.
- Implement decision support solutions.
- Implement computer vision solutions.
- Implement natural language processing solutions.
- Implement knowledge mining and document intelligence solutions.
- Implement generative AI solutions.



**Microsoft** Partner

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## Course Topics

### Module 1: Get Started with Azure AI Services

- Prepare to Develop AI Solutions on Azure
- Create and Consume Azure AI Services
- Secure Azure AI Services
- Monitor Azure AI Services
- Deploy Azure AI Services in Containers

### Module 2: Create Computer Vision Solutions with Azure AI Vision

- Analyse Images
- Classify Images
- Detect, Analyse, and Recognize Faces
- Read Text in Images and Documents with the Azure AI Vision Service
- Analyse Video

### Module 3: Develop Natural Language Processing Solutions with Azure AI Services

- Analyse Text with Azure AI Language
- Build a Question Answering Solution
- Build a Conversational Language Understanding Model
- Create a Custom Text Classification Solution
- Create a Custom Named Entity Extraction Solution
- Translate Text with Azure AI Translator Service
- Create Speech-Enabled Apps with Azure AI Services
- Translate Speech with the Azure AI Speech Service

### Module 4: Implement Knowledge Mining with Azure Cognitive Search

- Create an Azure AI Search Solution
- Create a Custom Skill for Azure AI Search
- Create a Knowledge Store with Azure AI Search

### Module 5: Create Document Intelligence Solutions with Azure AI Document Intelligence

- Plan an Azure AI Document Intelligence Solution
- Use Prebuilt Azure AI Document Intelligence Models
- Extract Data from Forms with Azure Document Intelligence

### Module 6: Develop Generative AI Solutions with Azure OpenAI Service

- Get started with Azure OpenAI Service
- Build Natural Language Solutions with Azure OpenAI Service
- Apply Prompt Engineering with Azure OpenAI Service
- Generate Code with Azure OpenAI Service
- Generate Images with Azure OpenAI Service
- Use Your Own Data with Azure OpenAI Service
- Fundamentals of Responsible Generative AI

## LABS INCLUDED



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